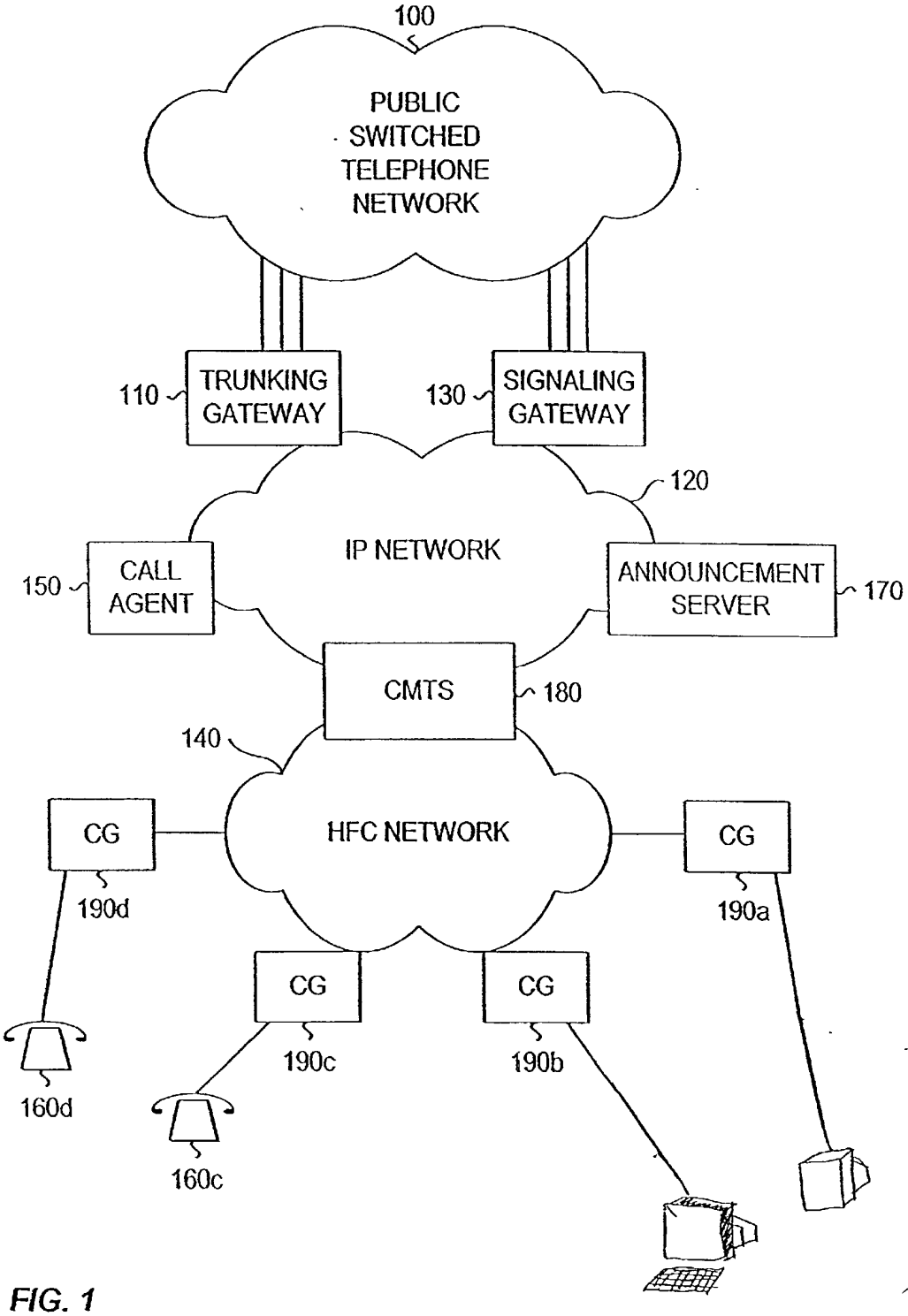
100
PUBLIC SWITCHED TELEPHONE NETWORK
110
TRUNKING GATEWAY
130
SIGNALING GATEWAY
120
IP NETWORK
150
CALL AGENT
ANNOUNCEMENT SERVER
170
CMTS
180
140
HFC NETWORK
CG
190d
CG
190a
CG
190c
CG
190b
160d
160c

FIG. 1

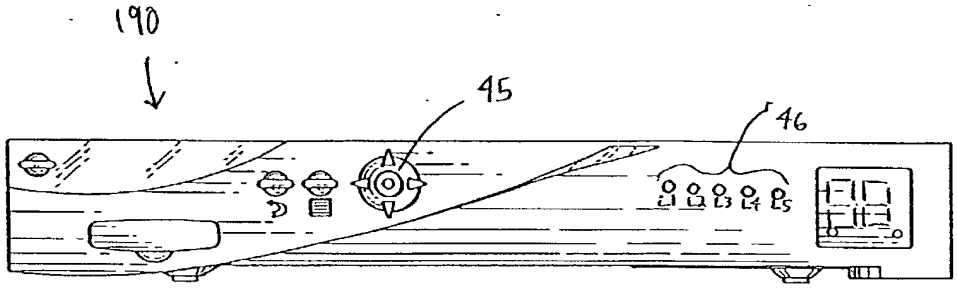

FIG. 2A

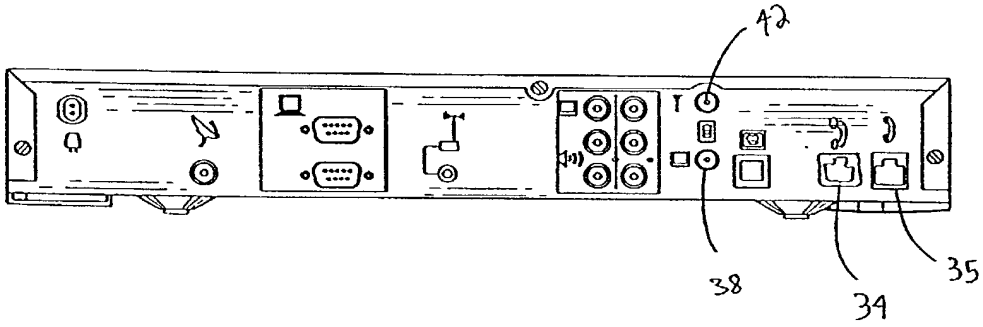

FIG 2B

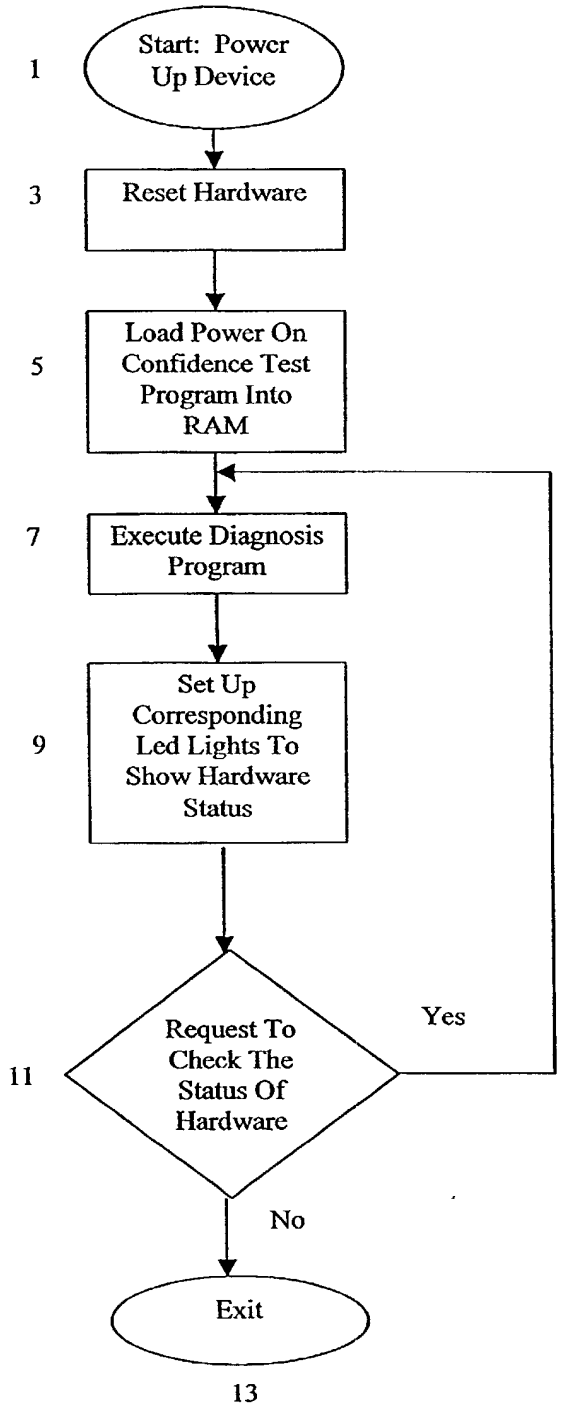
1
Start: Power Up Device
3
Reset Hardware
5
Load Power On Confidence Test Program Into RAM
7
Execute Diagnosis Program
9
Set Up Corresponding Led Lights To Show Hardware Status
11
Request To Check The Status Of Hardware
Yes
No
Exit
13

Fig. 3

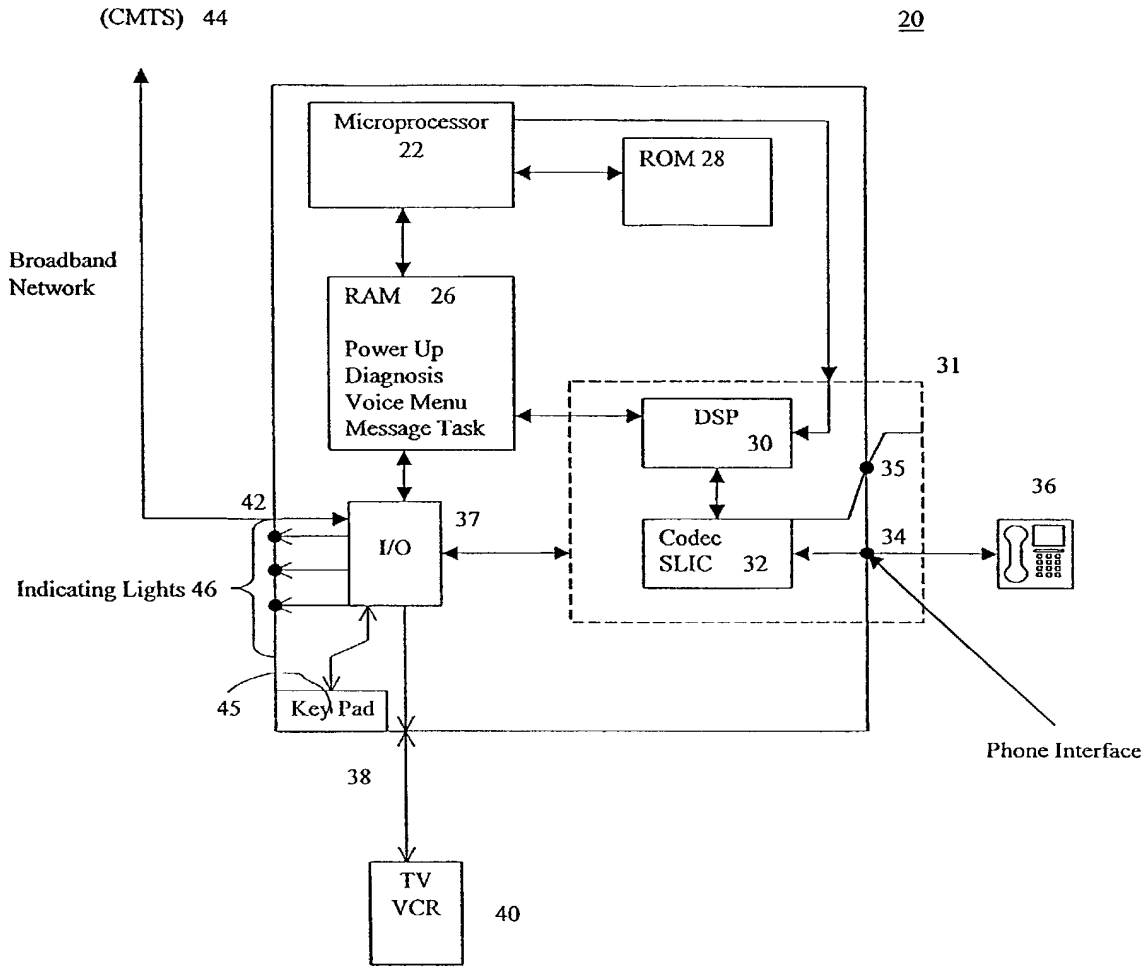
(CMTS) 44
20
Microprocessor
22
ROM 28
Broadband
Network
RAM 26
Power Up
Diagnosis
Voice Menu
Message Task
31
DSP
30
35
36
42
37
I/O
Codec
SLIC 32
34
Indicating Lights 46
45
Key Pad
Phone Interface
38
TV
VCR
40

Fig. 4

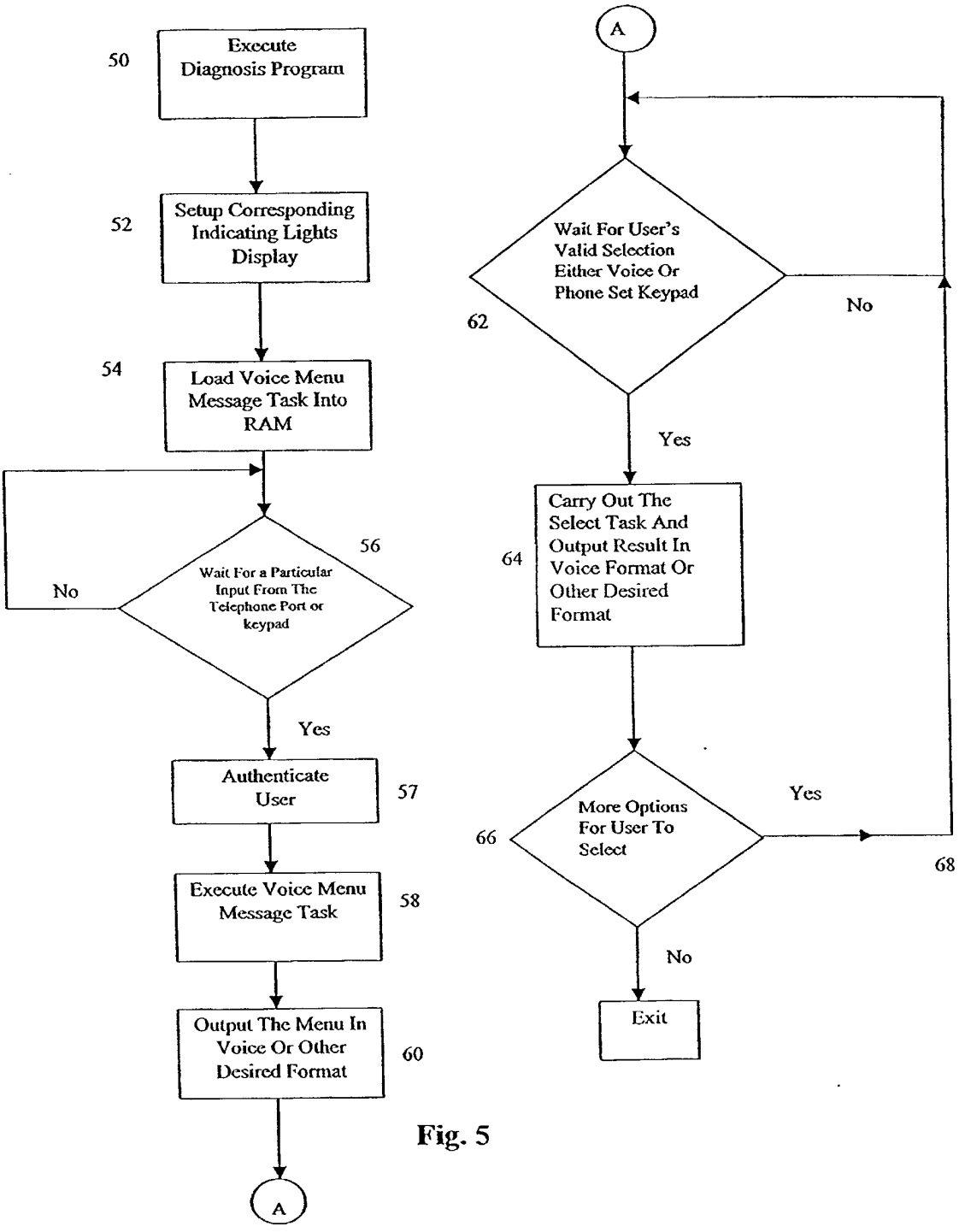
50
Execute Diagnosis Program
52
Setup Corresponding Indicating Lights Display
54
Load Voice Menu Message Task Into RAM
56
Wait For a Particular Input From The Telephone Port or keypad
No
Yes
Authenticate User
57
Execute Voice Menu Message Task
58
Output The Menu In Voice Or Other Desired Format
60
A
A
Wait For User's Valid Selection Either Voice Or Phone Set Keypad
62
No
Yes
Carry Out The Select Task And Output Result In Voice Format Or Other Desired Format
64
More Options For User To Select
66
Yes
68
No
Exit

Fig. 5

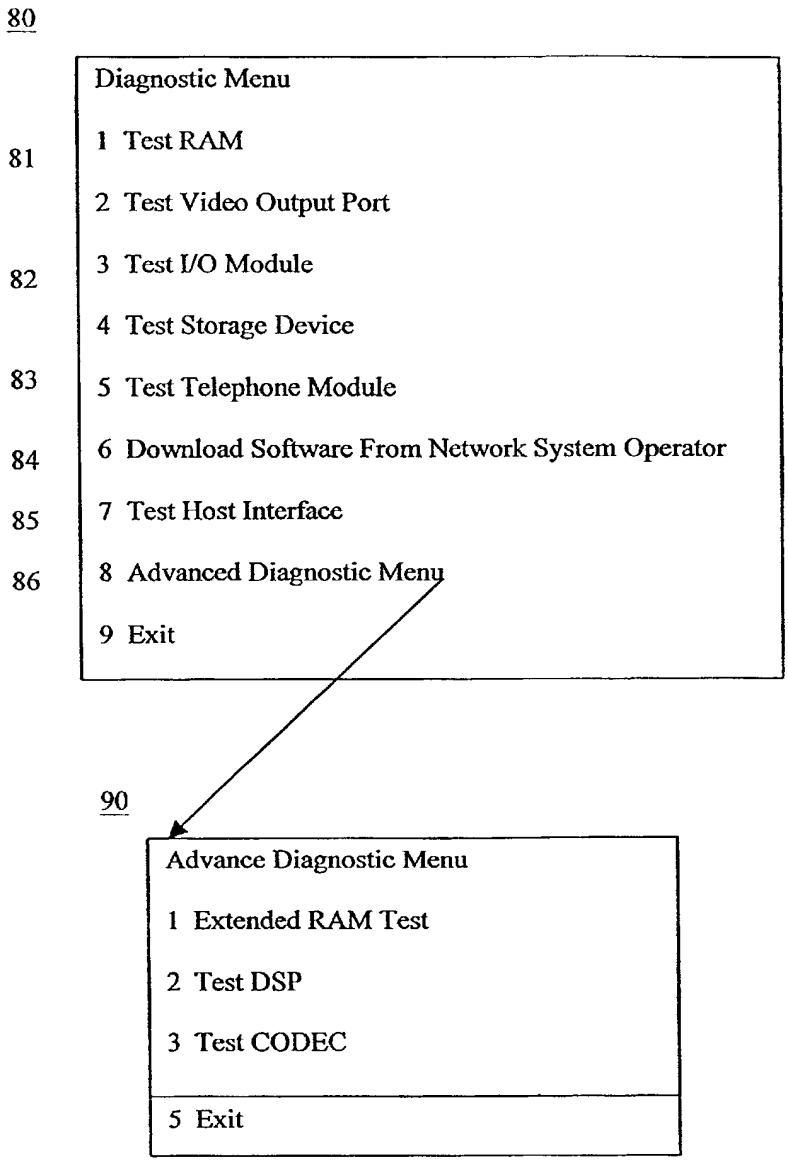
80
Diagnostic Menu
1 Test RAM
81
2 Test Video Output Port
3 Test I/O Module
82
4 Test Storage Device
83
5 Test Telephone Module
84
6 Download Software From Network System Operator
85
7 Test Host Interface
86
8 Advanced Diagnostic Menu
9 Exit
90
Advance Diagnostic Menu
1 Extended RAM Test
2 Test DSP
3 Test CODEC
5 Exit

Fig. 6